SAMSUNG

PLASMA DISPLAY

Owner's Instructions

Before operating the unit,
please read this manual thoroughly,
and retain it for future reference.

REMOTE CONTROL
ON-SCREEN MENUS
PICTURE IN PICTURE

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Safety Instructions

- ***Do not place the PDP on an unstable cart, stand, tripod, bracket, table, or floor where it can fall.***
- ***Do not expose the PDP to extreme temperature conditions or to extreme humidity conditions.***
- ***Do not expose the PDP to direct sunlight and other sources of heat.***
- ***Do not expose the PDP to any liquids.***
- ***Never put objects of any kind into the television, and do not place a water-containing vessel on the PDP.***
- ***During a storm conditions (especially when there is lightning) unplug the PDP from the mains socket and aerial.***
- ***Do not step on or twist the power cord.***
- ***Do not overload wall outlets or extension cords as this can result in a risk of fire or electric shock.***
- ***Please use a soft and dry cloth (not containing volatile matter) when you clean the PDP.***
- ***If the PDP is broken, do not try to repair it yourself. Contact qualified service personnel.***
- ***If the remote control is not used for a long period of time, remove the batteries and store it in a cool, dry place.***
- ***Do not drop the remote control.***

User Instructions

- ***Screen Image retention***
  Do not display a still image (such as on a video game or when hooking up a PC to this PDP) on the plasma monitor panel for more than 2 hours as it can cause screen image retention. This image retention is also known as “screen burn”. To avoid such image retention, reduce the degree of brightness and contrast of this screen when displaying a still image.

- ***Cell Defect***
  The plasma display panel consistes of fine cells. Although the panels are produced with more than 99.9 percent active cells, there may be some cells that do not produce light or remain lit.

- ***Height***
  The PDP can normally operate only under 2000m in height. It might abnormally function at a place over 2000m in height and do not install and operate there.

- ***Warranty***
  - Warranty does not cover any damage caused by image retention.
  - Burn-in is not covered by the warranty.

Caution

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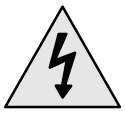
CAUTION

RISK OF ELECTRIC SHOCK DO NOT OPEN

CAUTION: TO PREVENT ELECTRICAL SHOCK, DO NOT REMOVE REAR COVER, NO USER SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

The lightning flash and arrow head within the triangle is a warning sign alerting you of "dangerous voltage" inside the product.



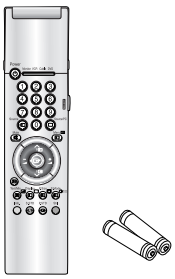
The exclamation point within the triangle is a warning sign alerting you of important instructions accompanying the product.

☛ ***The main voltage is indicated on the rear of the PDP and the frequency is 50 or 60Hz.***

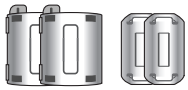
WARNING: TO PREVENT DAMAGE WHICH MAY RESULT IN FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.

Checking Parts

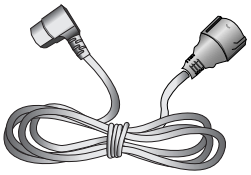
Owner's Instructions



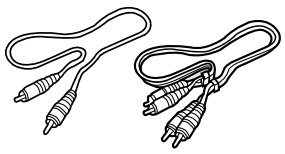
Remote Control/
AAA Batteries



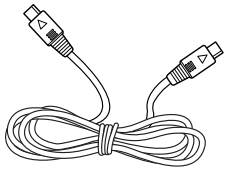
Ferrite Cores



Power Cord



AV Cables (RCA)



S-VIDEO Cable

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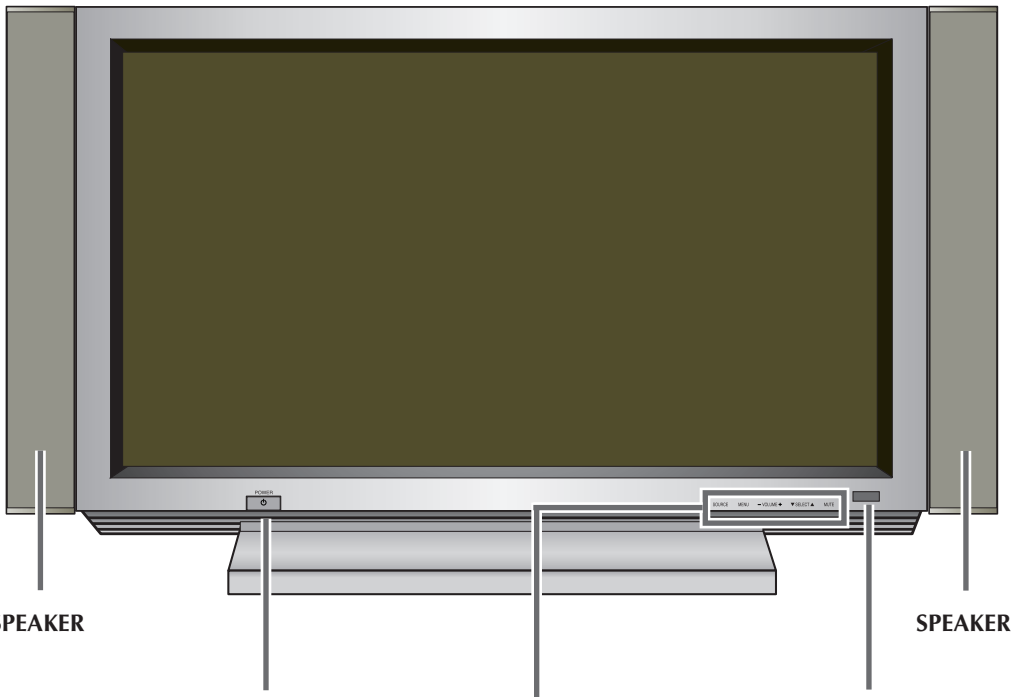
Front Panel



SPEAKER

SPEAKER

POWER
Press to turn the PDP on and off.

Remote Control Signal Receiver
Aim the remote control towards this spot on the PDP.

SOURCE
External input selection.

MENU
Menu display.

– VOLUME +
Volume adjustment.

▼ SELECT ▲
Control the cursor in the Menu.

MUTE
Temporary sound switch-off.

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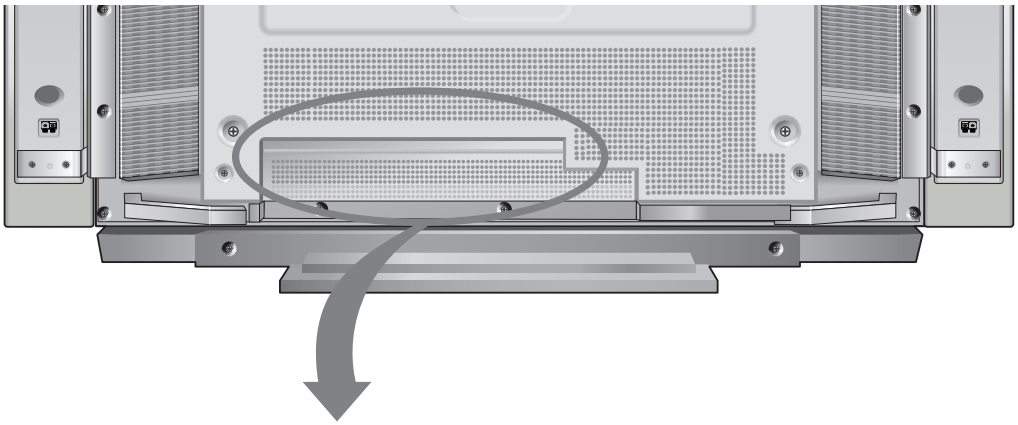
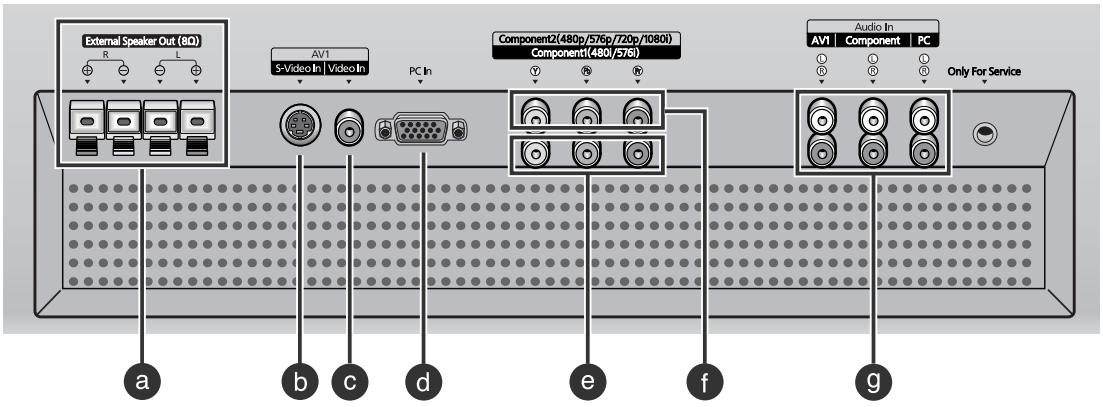
Rear Panel





a) External Speaker Outputs (8Ω)
Connect external speakers.

b) S-VIDEO Input
Connect a S-Video signal from an S-VHS VCRs or DVD players.

c) VIDEO Input
Connect a video signal from external sources like VCRs or DVD players.

d) PC Input
Connect a PC signal from an PC.

e) Component1 (480i/576i)
Connect a video signal from DVD players (480i/576i).

f) Component2 (480p/576p/720p/1080i)
Connect a video signal from external sources like Set-top box or DVD players (480p/576p/720p/1080i).

g) Audio Inputs
Connect a audio signal from external sources like VCRs, DVD players, Set-top box or PC.

Remote Control Buttons

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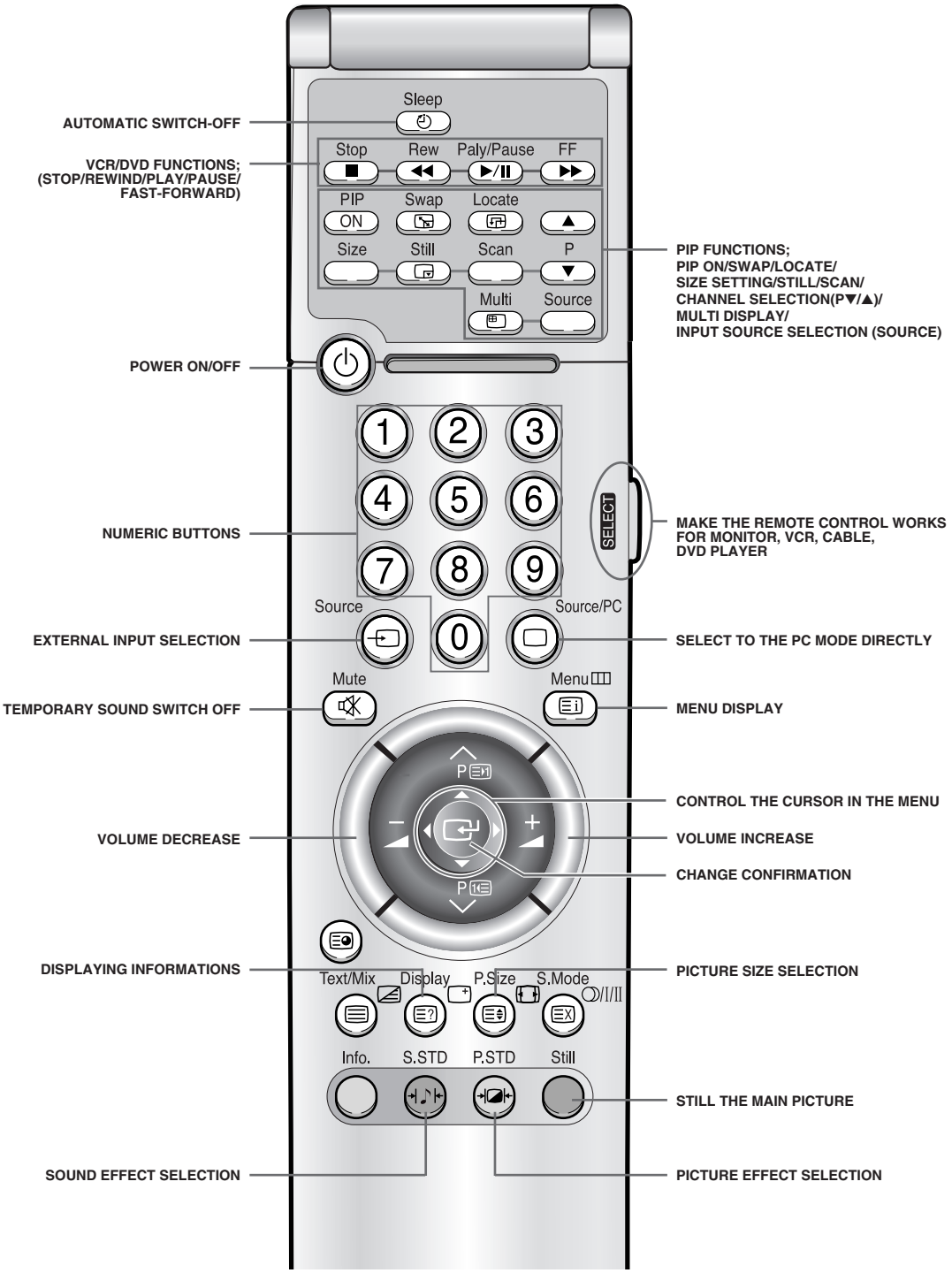
➢ Some remote control buttons do not operate with the PDP.



➢ *It is possible that the work of the transmitter is dull or not operated normally if the light of the Bulb is on around the PDP.*

Inserting the Batteries in the Remote Control

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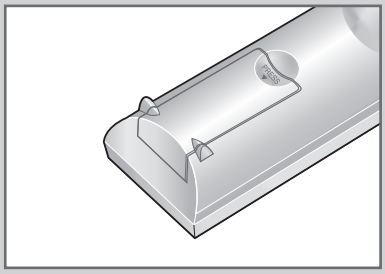
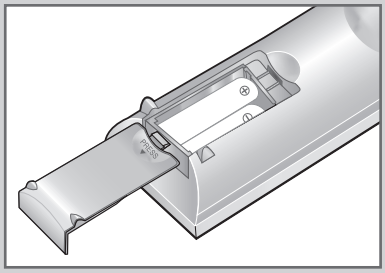
You must insert or replace the batteries in the remote control when you:

- ***Purchase the PDP***
- ***Find that the remote control is no longer operating correctly***





1	Remove the cover on the rear of the remote control by pressing the symbol downwards and then pulling firmly to remove it.
2	Insert two R03, UM4, "AAA" 1.5V or equivalent batteries taking care to respect the polarities: ◆ + on the battery against + on the remote control ◆ - on the battery against - on the remote control
3	Replace the cover by aligning it with the base of the remote control and pressing it back into place.

➢ Do not mix battery types, i.e. alkaline and manganese.

Installing the Display on the Wall Attachment Panel

➢ Wall attachment panel is sold separately. Check with your dealer.

Installation Notes

- Do not install the PDP on any place other than vertical walls.
- To protect the performance of the PDP and prevent troubles, avoid the followings:
  - Do not install next to smoke and fire detectors.
  - Do not install in an area subjected to vibration or high voltage.
  - Do not install in the wall.
  - Do not install near or around any heating apparatus.
- Use only recommended parts and components.

continued...

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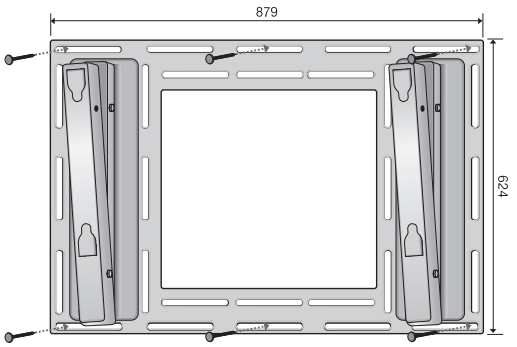
Installing the Display on the Wall Attachment Panel

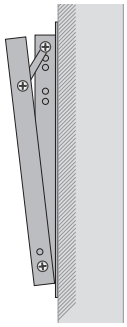
➢ Wall attachment panel is sold separately. Check with your dealer

1 Check for the stability of the wall where the PDP is to be installed. If the wall is not enough strong to support the PDP, strengthen the wall before installation.

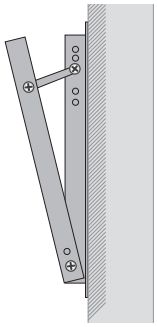
2 Fix the wall attachment panel on the wall using bolts as shown in the figure: Fixing bolts must protrude from the wall appox. 1.5 cm.



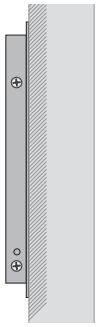
3 Using the wall attachment panel, you may adjust the angle of the display from 0 to 20 degrees. The angle can be set in 5 stages with 5 degrees of distance each using the angle control holes on the sides of the panel.



When the angle has been set to 5 degrees.

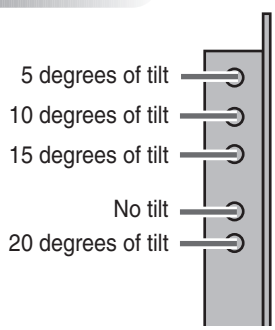


When the angle has been set to 15 degrees.



When the panel hasn't been tilted.

Angle control holes



Installing the Display on the Wall Attachment Panel

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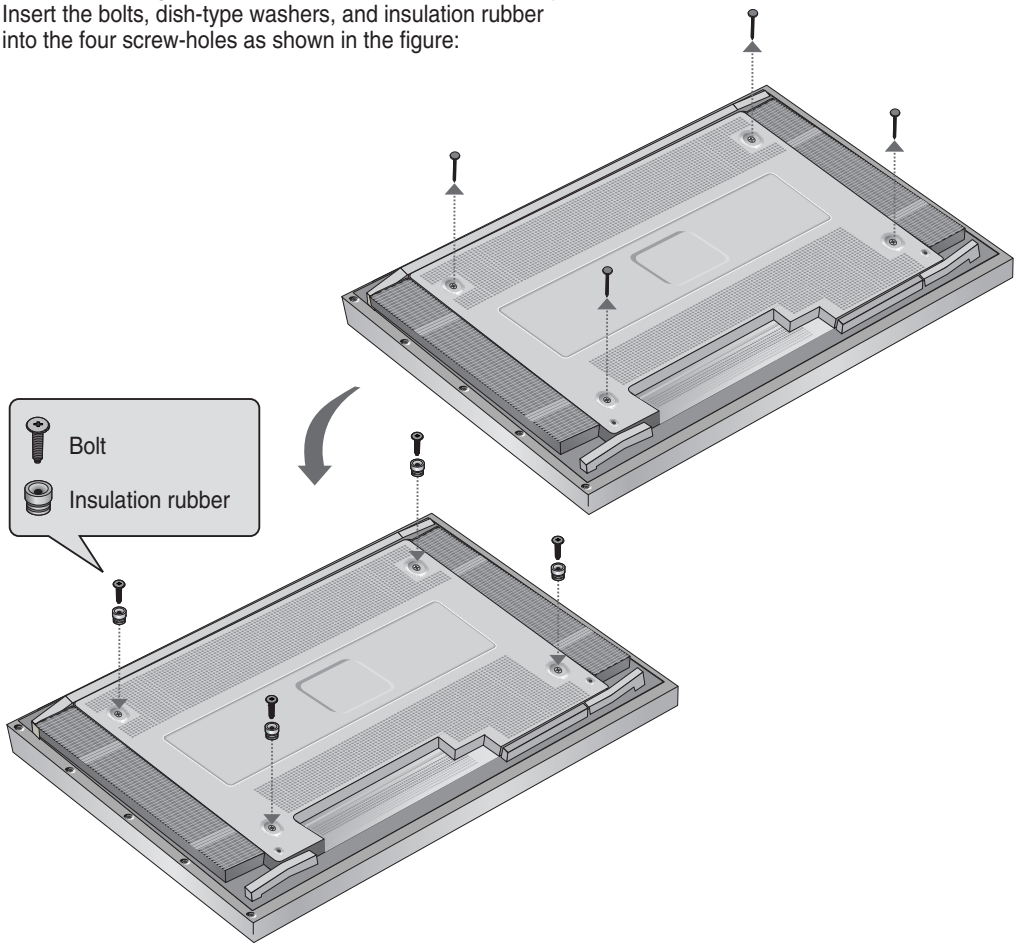
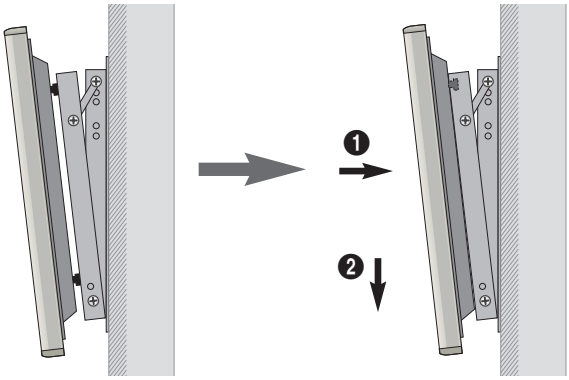
4 Remove four large screws from the rear side of the display. Insert the bolts, dish-type washers, and insulation rubber into the four screw-holes as shown in the figure:



5 Put the insulation rubber point protruding from the rear top of the display in the groove on the top of the wall attachment panel. Lift up the display a little bit so that the insulation rubber point at the bottom of the rear side of the display is put to the groove at the bottom of the wall attachment panel. (Do not lift the display with any pressure. The insulation rubber at the top may be taken off.)



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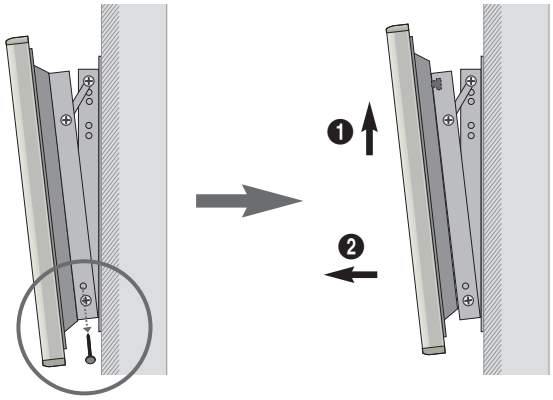
Separating the Display from the Wall Attachment Panel

Remove the fixing bolts from both sides (left and right) of the wall attachment panel. Lift and pull the bottom of the display a small amount, to separate the insulation rubber point from the bottom of the wall attachment panel.

Lift the display and separate the insulation rubber point from the groove on top of the wall attachment panel.

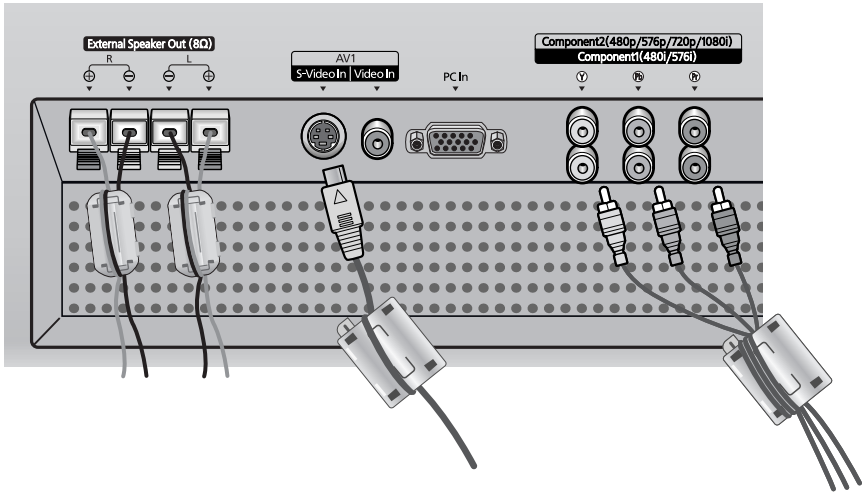


Before Connecting the Display to External Equipment

Carefully check the connectors for position and type before making any connections. Loose connectors can result in picture or color problems. Make sure that all connectors are securely inserted into their terminals.

Ferrite Cores

The ferrite cores are used to attenuate undesired signals. When connecting cables, attach one of these ferrite cores to the cable near the connector.



➢ When you connect the speaker wire, RCA cable and S-Video cable to the connectors, first bind round the ferrite core to secure it.

Connecting Speakers

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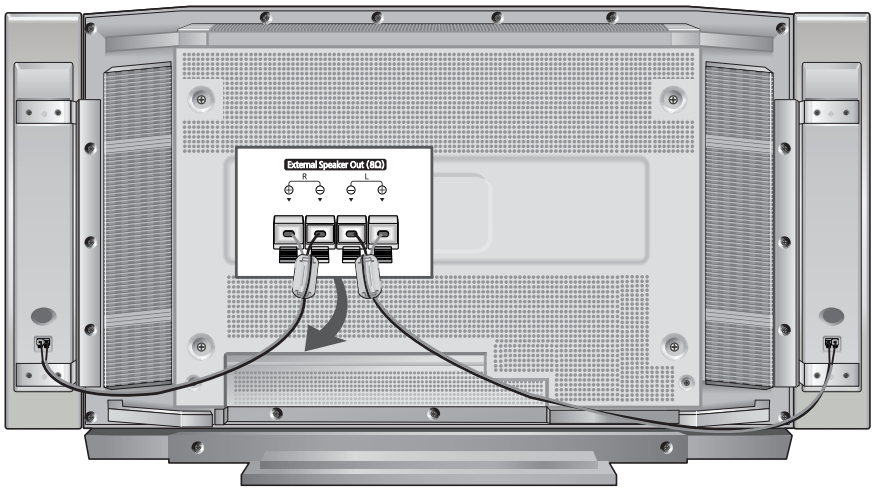
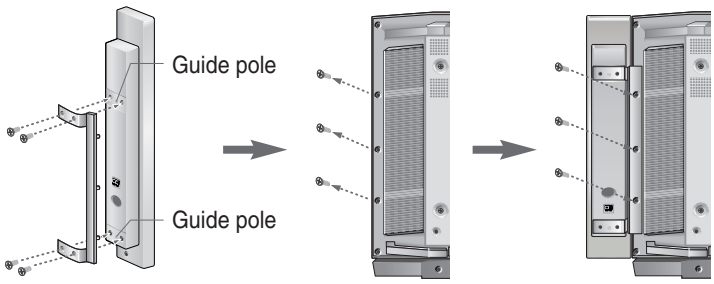
Connect the speaker audio cable to the external speaker output jack on the rear of the PDP matching the "+" and "–" ends of the cable with the diagram on the PDP.



➢ The speakers MUST have more than 7watts rating (impedance 8Ω).

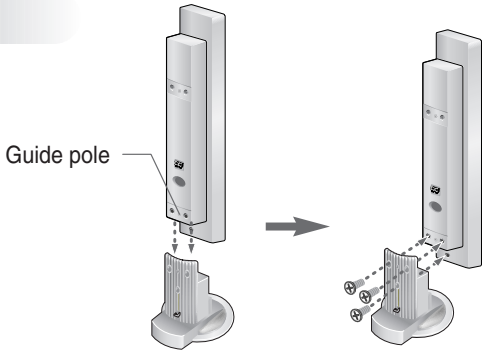
Connecting PDP and Speakers

Fix the bracket onto the guide pole located on the rear of speaker and fasten the screws.
After removing the three screws on the PDP, clamp the speaker and the PDP together and fasten the screws.



➢ When moving your PDP, do NOT hold the speaker connected to your PDP. It may damage the bracket clamping the speaker and your PDP together and result in a drop of your PDP and a risk of personal damage and injury.

Connecting Stand and Speakers



Connecting a VCR or Cable Box

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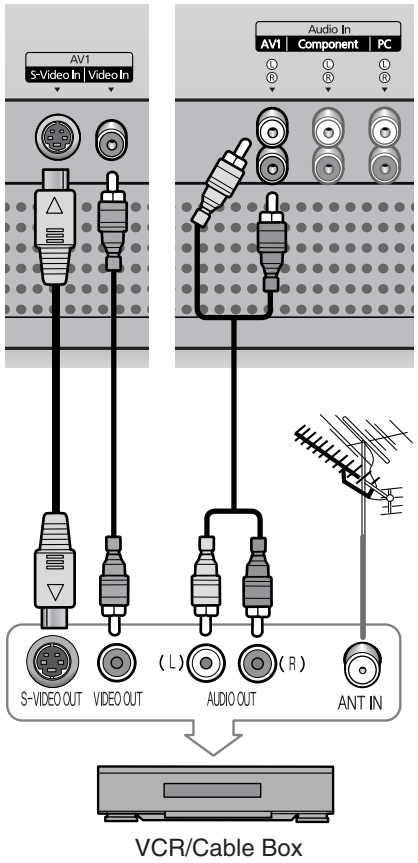
Rear panel



VCR/Cable Box

- ***Connect a Video/S-Video cable between the Video/S-Video output jack on the VCR/Cable box and the Video input jack on the PDP.***
  – For better video, you can use a S-Video cable.
- ***Connect an Audio cable between the Audio output jack on the VCR/Cable box and the Audio input jack on the PDP.***

Videotape Playback

1	Turn on PDP and select the Video or S-Video mode (if S-Video jack is connected) by pressing the **Source** on the remote control.
2	Turn on your VCR, insert a videotape and press the Play button.

Connecting a DVD Playar or Set-top Box

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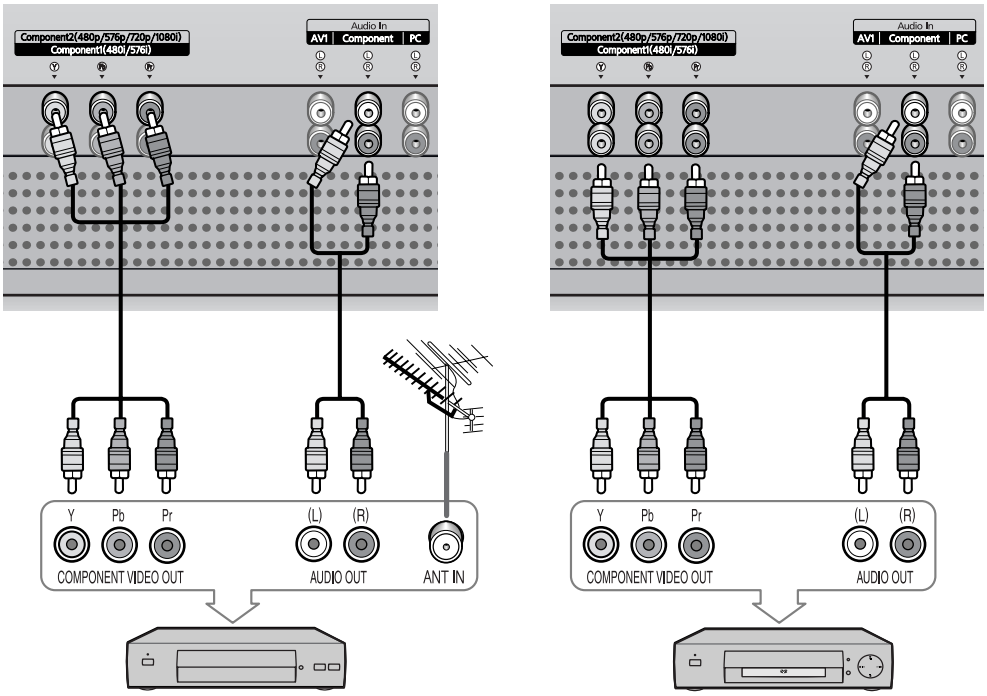
Rear panel



Setop Box

DVD Player

- ***Connect a Video cable between the Component Video output jack on the Set-top Box and the Component Video input jack (Component2) on the PDP.***
- ***Connect an Audio cable between the Audio output jack on the Set-top Box and the Audio input jack on the PDP.***
- ***Connect a Video cable between the Component Video output jack on the DVD Player and the Component Video input jack (Component1 or Component2) on the PDP.***
- ***Connect an Audio cable between the Audio output jack on the DVD Player and the Audio input jack on the PDP.***

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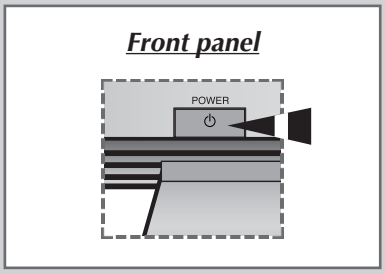
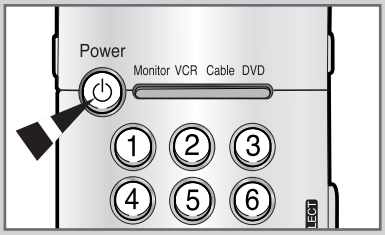
Switching On and Off





The mains lead is attached to the rear of the PDP.

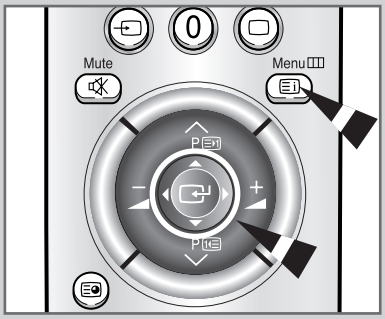
1 Plug the mains lead into an appropriate socket.

➢ The main voltage is indicated on the rear of the display and the frequency is 50 or 60Hz.

2 Press the **POWER** (⏻) button on the front panel or remote control to switch the display on.

➢ **If your Monitor isn't turned on when the power button is pressed...**
press the **SELECT** button to check if the Monitor mode has been chosen.

Viewing the Menus and Displays



Your PDP has a simple, easy-to-use menu system that appears on the PDP screen. This system makes it convenient and fast to use features on the PDP. Your PDP also lets you display the status of many of your PDP's features.

1 With the power on, press the **Menu** button on the remote control. The main menu appears on the screen.

2 Use the joystick (up, down) button to the move items in the menu. Use the joystick (left, right) button to display, change, or use the selected items. Press the joystick button to enter items in the menu. On screen menus disappear from the screen automatically after about thirty seconds, or you can press the **Menu** button on the remote control to exit the menu.

Using the Various Setup Menus

- ***Color System***
  You can use your PDP in many countries. Each country has its own broadcasting standard. The following color systems are available in the order given: Auto, PAL, SECAM, NTSC 4.43, NTSC 3.58, PAL-M, PAL-N.

  ➢ If an abnormal phenomenon appears on the screen when **Auto** is selected, then select the color system manually.

- ***Digital NR***
  If the broadcast signal received is weak, you can activate the Digital Noise Reduction feature to help reduce any static and ghosting that may appear on the screen.

- ***Auto Power On***
  When you disconnect the power cord and re-connect it, the PDP will be powered on automatically. You don't need to press the "POWER" button on the front panel or remote control.

- ***Panel Lock***
  The front panel of the PDP can be locked to prevent it from being used by young children, for example.

- ***Language***
  When you start using your PDP for the first time, you must select the language which will be used for displaying menus and indications.

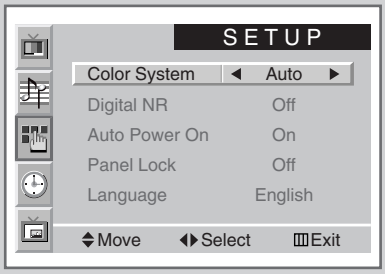
1 Press the **Menu** button.
Result: The main menu is displayed.

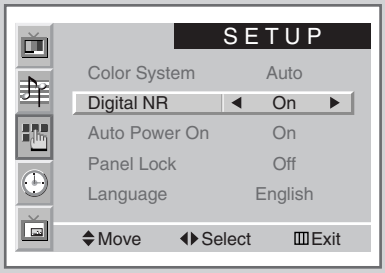
2 Move the joystick up or down to select the **SETUP** menu and press the joystick button.

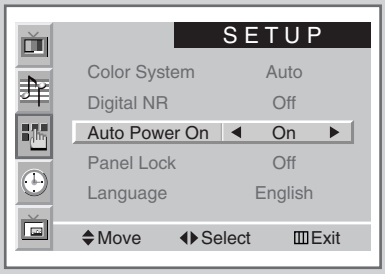
3

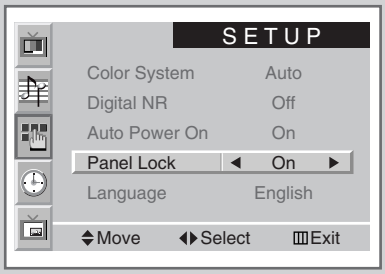
To...	Move the joystick...
Move to the each feature	up or down.
Select the required option	left or right.

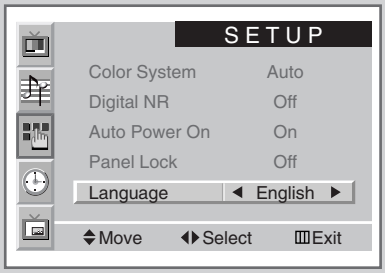
4 When you have selected, press the **Menu** button repeatedly to return to normal viewing.



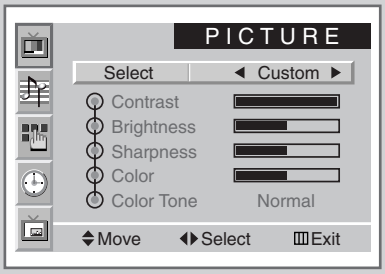


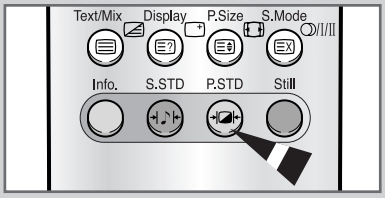






Using Automatic Picture Settings





You can select the picture effect which best corresponds to your viewing requirements. The following picture effects are available in the order given:

- ***Custom, Standard, Sports, Movie, Mild, Dynamic.***

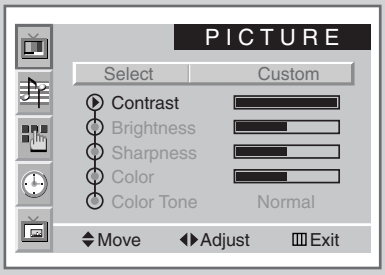
➢ In the PC mode, you can select **Custom**, **High**, **Middle** or **Low**.

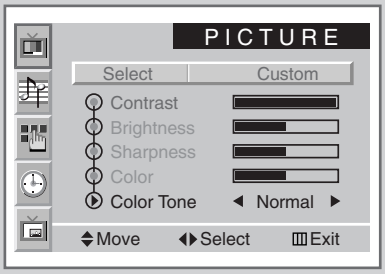
1 Press the **Menu** button, then press the joystick button to enter the **PICTURE** menu.
Result: The **Select** option is selected.

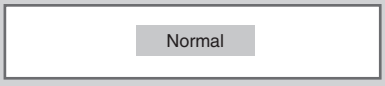
2 Select the required picture effect by moving the joystick left or right repeatedly.

You can select the picture effect by simply pressing the "P.STD" (Picture Standard) button on the remote control.

Customizing the Picture







Your PDP has several settings which allow you to control picture quality:

- ***Contrast, Brightness, Sharpness, Color, Color Tone, Tint*** *(NTSC only)*.

➢ When the **Select** is set to **Custom**, the following settings can be adjusted.

1 Press the **Menu** button, then press the joystick button to enter the **PICTURE** menu.

2 Move the joystick up or down to select the required option.

3

To adjust the...	Move the joystick...
◆ Contrast ◆ Brightness ◆ Sharpness ◆ Color	◆ left or right. Result: The horizontal bar is displayed.
◆ Color Tone	◆ left or right to select the required option (**Normal**, **Warm1**, **Warm2**, **Cool1**, **Cool2**).

4 When you are satisfied with the settings, press the **Menu** button repeatedly to return to normal viewing.

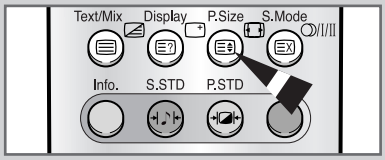
➢
- If you make any changes to these settings, the picture standard is automatically switched to **Custom**.
- In the PC mode, you can't adjust the **Color** and **Color Tone**.

Changing the Picture format

ENG

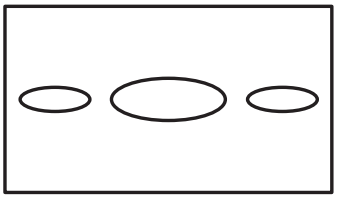
You can select the picture format which best corresponds to your viewing requirements by simply pressing the "P.Size" button. The following picture formats are available;

- **`Wide, Panorama, Zoom1, Zoom2, Stretch, 4:3.`**



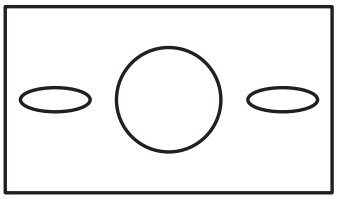
`Wide`

Sets the picture to 16:9 wide mode.



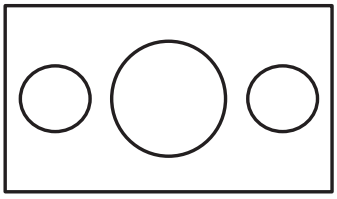
`Panorama`

Use this mode for the wide aspect ratio of a panoramic picture.



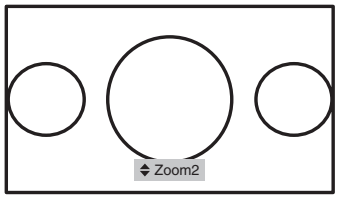
`Zoom1`

Magnify the size of the picture vertically on screen.



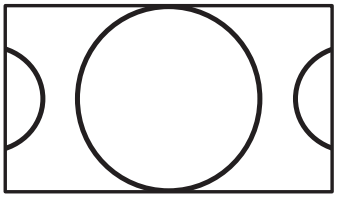
`Zoom2`

Magnify the size of the picture more than **`Zoom1`**.



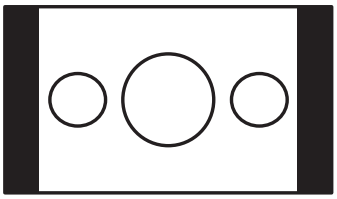
`Stretch`

Using this mode, magnify the picture vertically and horizontally to be bigger than the picture in **`Zoom2`**.



`4:3`

Sets the picture to 4:3 normal mode. This is a standard PDP screen size.

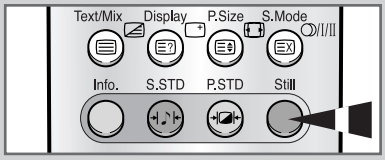


➢
- If you watch a still image or the 4:3 mode for a long time, image may be burned onto the screen, view the PDP in **`Wide`** or **`Panorama`** mode as possible.
- The 4:3 mode does not work with input signals from Component2 sources (Set-top box or DVD players- 480p/576p/720p/1080i).

Freezing the Current Picture

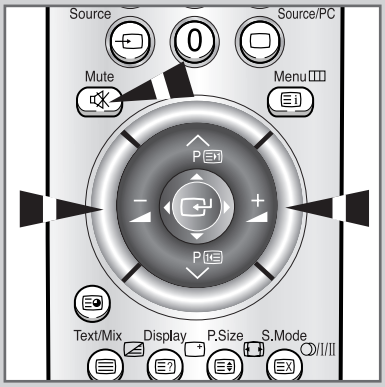
Press the "Still" button to freeze the picture on a given frame. To return to normal viewing, press the "Still" button again.

➢ In the PIP mode, both the main and sub pictures freeze.

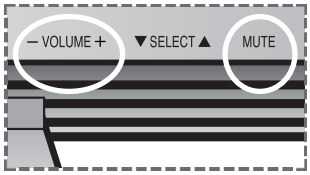


Adjusting the Volume

ENG



Front panel



- Press the **+** button to increase the volume (cursor moves to the right)
- Press the **–** button to decrease the volume (cursor moves to the left)

You can switch the sound off temporarily, for example you may wish to answer the telephone.

1 Press the **Mute** button.
Result: The sound is switched off and `Mute` is displayed.

2 When you wish to turn the sound back on at the same volume as before, press the **Mute** button again (or either of the volume buttons).

➢ The volume setting is retained:

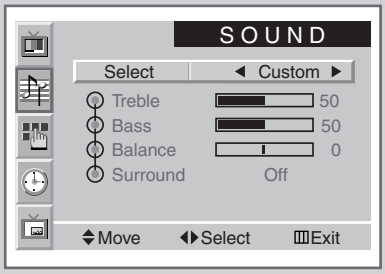
- When you switch off using the **POWER** button on the front panel or remote control
- If there is a power failure.

Using Automatic Sound Settings

ENG

You can select the type of special sound effect to be used when watching a given broadcast. The following sound effects are available in the order given:

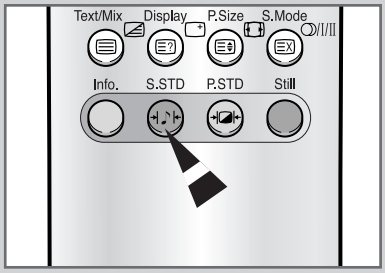
- ***Custom, Standard, Music, Movie, Speech.***



1 Press the **Menu** button.
Result: The menus available are displayed.

2 Move the joystick up or down to select the `SOUND` menu and press the joystick button.
Result: The `Select` option is selected.

3 Select the required picture effect by moving the joystick left or right repeatedly.



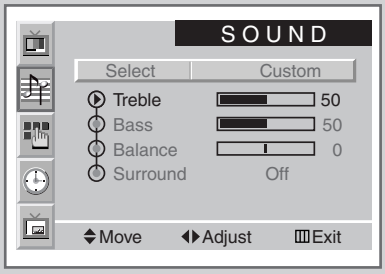
You can select the type of special sound effect by simply pressing the "S.STD" (Sound Standard) button on the remote control.

Customizing the Sound

The sound settings can be adjusted to suit your personal preferences.

- ***Treble, Bass, Balance, Surround.***

➢ When the `Select` is set to `Custom`, the following settings can be adjusted.



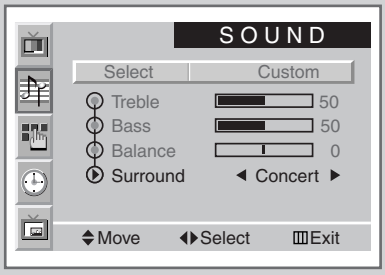
1 Press the **Menu** button.
Result: The menus available are displayed.

2 Move the joystick up or down to select the `SOUND` menu and press the joystick button.

3 Move the joystick up or down to select your required option.

4

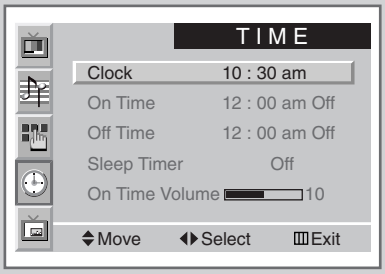
To adjust the...	Move the joystick...
◆ `Treble`, `Bass` and `Balance`	◆ left or right.
◆ `Surround`	◆ left or right to select the required option (`Off`, `Concert`, `Hall`, `Stadium`).



5 When you are satisfied with the settings, press the **Menu** button repeatedly to return to normal viewing.

ENG

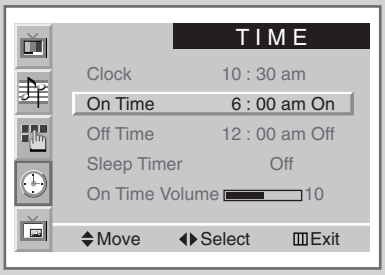
Setting the Current Time

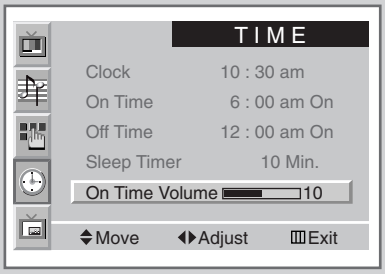


You can set the clock so that the current time is displayed when you press the "Display" button. You must also set the time if you wish to use the automatic On/Off timers.

1	Press the **Menu** button. Result: The menus available are displayed.	
2	Move the joystick up or down to select the **TIME** menu and press the joystick button. Result: The **Clock** option is selected.	
3	**To...**	**Move the joystick...**
	Move to the each option (hour, minute and am/pm)	left or right.
	Set the each option	up or down.

Switching On and Off Automatically





You can set the On/Off timers so that the PDP will switch On and Off automatically at the time you select.

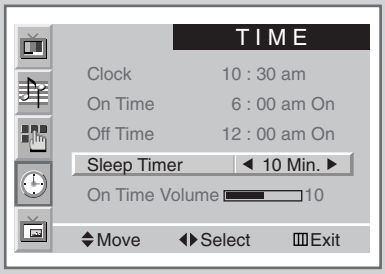
1	Press the **Menu** button. Result: The menus available are displayed.	
2	Move the joystick up or down to select the **TIME** menu and press the joystick button.	
3	Move the joystick up or down to select the **On Time** option and press the joystick button.	
4	**To...**	**Move the joystick...**
	Move to the each option (hour, minute, am/pm and On/Off)	left or right.
	Set the each option	up or down.
5	In the same way, set the time at which you wish to be switched Off (**Off Time**).	

If you want to set the volume level when the PDP switches on, move the joystick up or down to select the On Time Volume and adjust the volume level by moving the joystick left or right.

Setting the Sleep Timer

ENG

You can select a time period of between 10 and 360 minutes after which the PDP automatically switches to Standby mode.



1 Press the **Menu** button.

Result: The menus available are displayed.

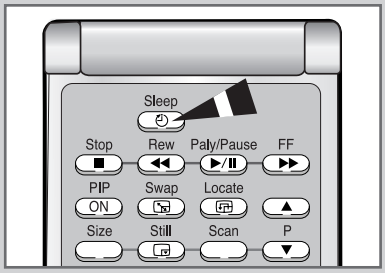
2 Move the joystick up or down to select the **TIME** menu and press the joystick button.

3 Move the joystick up or down to select the **Sleep Timer** option and set the time interval for the PDP to stay on.

➢ To cancel the sleep timer function, select the **Off**.

4 When you are satisfied with the settings, press the **Menu** button repeatedly to return to normal viewing.

You can set the sleep timer by simply pressing the "Sleep" button on the remote control.



1 Press the **Sleep** button on the remote control.

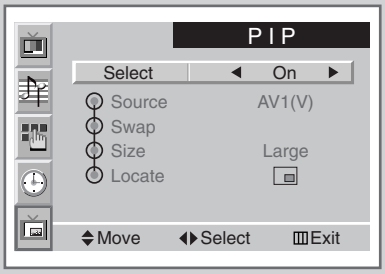
Result:

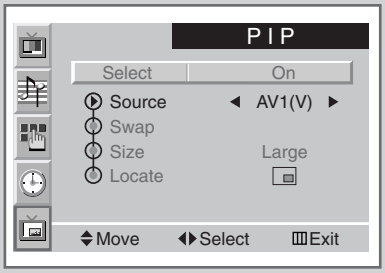
If the sleep timer is...	The screen displays...
Already set	Time remaining before the PDP will be placed in standby mode.
Not yet set	Word **Off**.

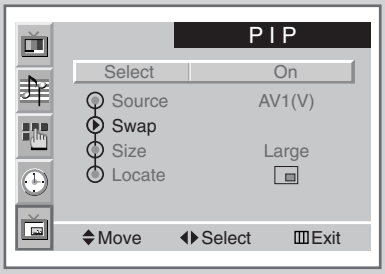
2 Set the time interval for the PDP to stay on.

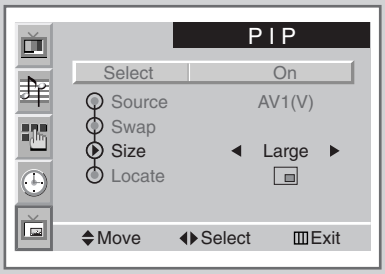
Viewing the Picture in Picture (PIP)

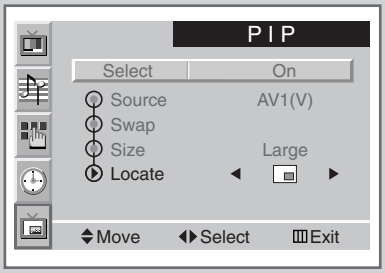
ENG











You can display a "Picture-In-Picture" screen within the main picture of input sources. In this way you can monitor the input sources from any connected equipment.

➢
- If you have not connected any equipment to the PDP's input jacks, you can not monitor the external sources of sub picture.
- The PIP feature does not work with input signals from Component2 sources (Set-top box or DVD players-480p/576p/720p/1080i).

1 Press the **Menu** button.
Result: The menus available are displayed.

2 Move the joystick up or down to select the **PIP** menu and press the joystick button.
Result: The **Select** option is selected.

3 Set to **On** by moving the joystick left or right.
Result: The options available in the **PIP** group are displayed.

4 Move the joystick up or down to select the **Source** option and move the joystick left or right repeatedly.
Result: The external sources of sub picture are displayed in the following order.
AV1(V) → AV1(S) → Comp.1

5 Move the joystick up or down to select the **Swap** option and move the joystick left or right.
Result: The main picture and sub picture are interchanged.

6 Move the joystick up or down to select the **Size** option and move the joystick left or right repeatedly.
Result: The types of sub picture are displayed.
Large ↔ Small

➢ In the PC mode, the size of sub picture may be different depending on the type of PC Monotir and its resolution.

7 Move the joystick up or down to select the **Locate** option and move the joystick left or right repeatedly.
Result: You can move the sub picture where you want.

8 When you have selected, press the **Menu** button repeatedly to return to normal viewing.

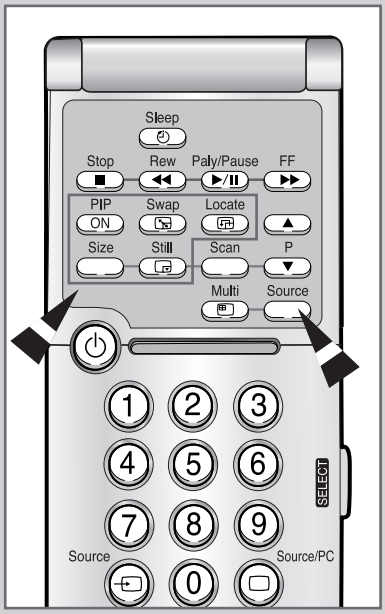
Viewing the Picture-In-Picture

ENG

You can enjoy the "PIP" feature by simply using the remote control.

Features	Description
PIP ON	Used to operate On/Off function of PIP directly.
Swap	Used to interchange the main picture and the sub picture.
Locate	Used to move the sub picture.
Size	Used to select the type of sub picture (`Large`, `Small`).
Still	Used to freeze the sub picture.
Source	Used to assign a source of sub picture (`AV1(V)`, `AV1(S)`, `Comp.1`).

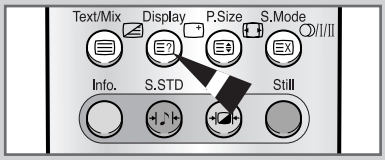
➢ The **P▼/▲**, **Scan** and **Multi** buttons do not work.

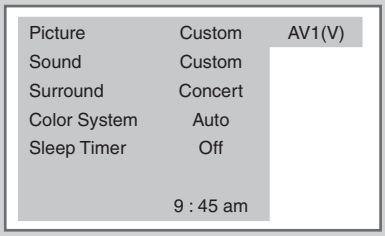


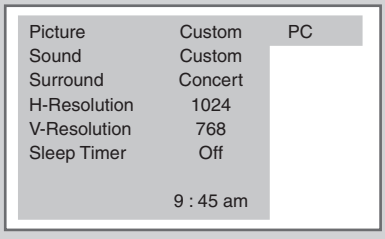
Displaying Informations

You can display the time and general informations by simply pressing the "Display" button. The followings are available:

- *Modes of selected picture, sound and surround*
- *Color system*
- *Horizontal and vertical resolutions (in PC mode)*
- *Sleep timer*
- *Current time (when the time is set)*
- *External input mode.*

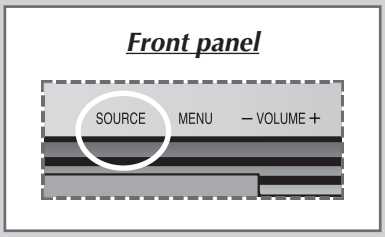


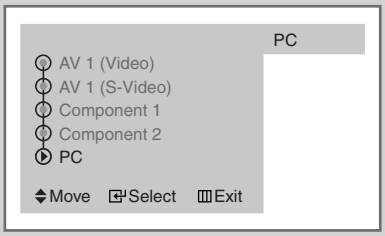




Viewing Pictures From External Sources

ENG





Once you have connected up your various audio and video systems, you can view the different sources by selecting the appropriate input.

1	Check that all the necessary connections have been made.
2	Press the **Source** button. Result: The input sources available are displayed.
3	Move the joystick up or down to select the required input and press the joystick button.
4	When you have selected, press the **Menu** button repeatedly to exit.

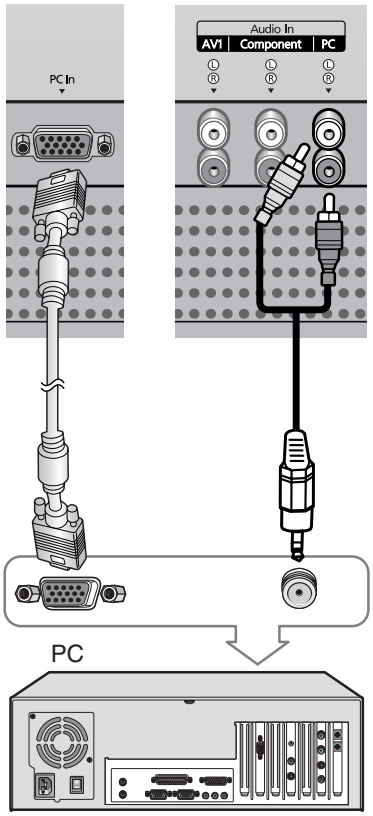
➢ If you change the external source while viewing, pictures might take a short period of time to be switched.

Connecting a PC

ENG

- ***Connect a PC cable (15pin) between the PC and PDP.***
- ***Connect an Audio cable between the Audio output jack on the PC and the Audio input jack (PC) on the PDP.***

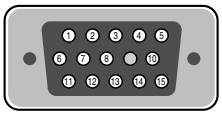
Rear panel



Viewing the PC screen:

1	Turn on PDP and select the PC mode by pressing the **Source** (or **Source/PC**) button on the remote control.
2	Turn on PC and check for PC system requirements. (Refer to pages 29~30 for PC system requirements.)
3	Adjust the PC screen. (Refer to page 31.)

Pin Configuration



15Pin Signal Cable
(based on protruded pin)

Pin No.	PC IN	PC OUT
1	Red (R)	Red (R)
2	Green (G)	Green (G)
3	Blue (B)	Blue (B)
4	Grounding	Grounding
5	Grounding (DDC)	Grounding (DDC)
6	Red (R) Grounding	Red (R) Grounding
7	Green (G) Grounding	Green (G) Grounding
8	Blue (B) Grounding	Blue (B) Grounding
9	Reserved	Reserved
10	Sync Grounding	Sync Grounding
11	Grounding	Grounding
12	Data (DDC)	Data (DDC)
13	Horizontal sync.	Horizontal sync.
14	Vertical sync.	Vertical sync.
15	Clock (DDC)	Clock (DDC)

ENG

Setting up Your Display Plug and Play

Our adoption of the new VESA® Plug and Play solution eliminates complicated and time consuming setup. It allows you to install your monitor in a Plug and Play compatible system without the usual hassles and confusion. Your PC system can easily identify and configure itself for use with your display. This monitor automatically tells the PC system its Extended Display Identification data (EDID) using Display Data Channel (DDC) protocols.

Preset Signals

Source	Video	Vertical frequency (Hz)	Horizontal frequency (kHz)	Resolution (Lines)
AV1(Video) AV1(S-Video)	NTSC3.58	60	15.704	483
	PAL	50	15.625	575
	SECAM	50	15.625	575
	NTSC4.43	60	15.734	483
	PAL-M	60	15.734	483
	PAL-N	50	15.625	575
Component 1	480/60i	60	15.734	483
	576/50i	50	15.625	575
Component 2	480/60p	60	31.469	483
	576/50p	50	31.250	575
	720/60p	60	45.000	720
	1080/50i	50	28.125	1080
	1080/60i	60	33.750	1080

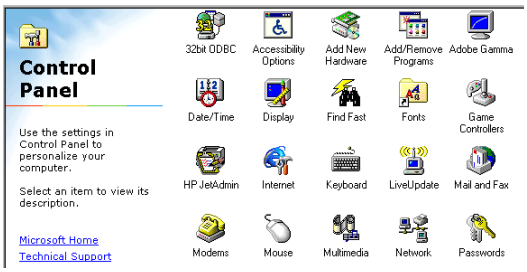
➢ When the 576/50p signal is received, the picture might be displayed abnormally or shift, depending on the receiver or A/V component. In that case, you can try “Chaning the Screen Position” on page 32. (But the screen position might be unmatched depending on the component.)

Setting up Your PC Software (Windows only)

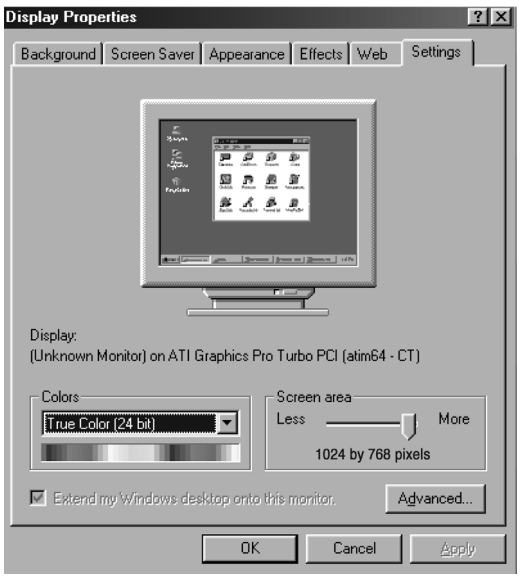
ENG

The Windows display-settings for a typical computer are shown below. But the actual screens on your PC will probably be different, depending upon your particular version of Windows and your particular video card.

On the windows screen, select in the following sequence: Start → Settings → Control Panel.



When the control panel screen appears, click on “Display” and a display dialog-box will appear.



Select the “Settings” tab in the display dialog-box.

The two key variables that apply the PDP-PC interface are “Resolution” and “Colors”.
The correct settings for these two variables are:

- **Size** (sometimes called “Resolution”)
  1024 x 768 pixels.
- **Color**
  “24-bit” color (might also be expressed as “16 million colors”)
  Shown at left is a typical screen for “Display” dialog box.

If a vertical-frequency option exists on your display settings dialog box, the correct value is “60” or “60Hz”. Otherwise, just click “OK” and exit the dialog box.

PC Input Mode

ENG

Both screen position and size will vary depending on the type of PC monitor and its resolution. The table below shows all of the display modes that are supported:

Standard	Dot x Line	Vertical frequency (Hz)	Horizontal frequency (kHz)	Vertical polarity	Horizontal polarity
VGA	640 x 480	85.0	43.3	N	N
		75.0	37.5	N	N
		72.8	37.9	N	N
		59.9	31.5	N	N
	720 x 400	70.1	31.5	P	N
SVGA	800 x 600	85.1	53.7	P	P
		75.0	46.9	P	P
		72.2	48.1	P	P
		60.3	37.9	P	P
		56.3	35.2	P	P
XGA	1024 x 768	85.0	68.7	P	P
		75.0	60.0	P	P
		70.1	56.5	N	N
		60.0	48.3	N	N

(N: Negative / P: Positive)

- The interlace mode is not supported.
- The PDP might operate abnormally if a non-standard video format is selected.
- The 4:3 mode does not work with input signals from “720 x 400”.

Notes

- **The text quality of PC screen is optimum in the VGA mode (640 x 480), the full size displayed PC mode is optimum in the SVGA mode (800 x 600).**
- When this PDP is used as a PC display, 24-bit color is supported (over 16 million colors).
- Your PC display screen might appear different depending on the manufacturer (and your particular version of Windows). Check your PC instruction book for information about connecting your PC to a PDP.
- If a vertical and horizontal frequency-select mode exists, select 60Hz (vertical) and 31.5kHz (horizontal). In some cases, abnormal signals (such as stripes) might appear on the screen when the PC power is turned off (or if the PC is disconnected). If so, press the **Source** button to enter the Video mode. Also, make sure that the PC is connected.
- When connecting a notebook PC to the PDP, make sure that the PC screen is displayed through only the PDP monitor (Otherwise, random signals might appear).
- When horizontal synchronous signals seem irregular in PC mode, check PC power saving mode or cable connections.

Controlling the Screen Color

ENG

➢ Preset to the PC mode by using the **Source** button.

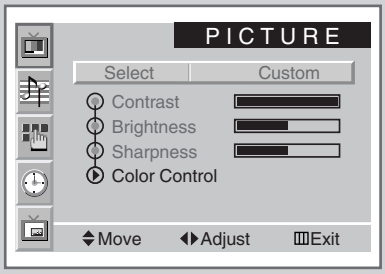
1 Press the **Menu** button, then press the joystick button to enter the `PICTURE` menu.

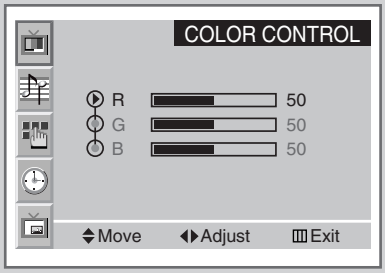
2 Move the joystick up or down to select the `Color Control` menu and move the joystick left or right.

3

To...	Move the joystick...
Move to the each option (`R`-Red, `G`-Green, `B`-Blue)	up or down.
Adjust the each option	left or right.

4 When you are satisfied with the settings, press the **Menu** button repeatedly to return to normal viewing.





Adjusting the Screen Quality

This feature is to remove or reduce picture noise, causing a tremble of screen and insecure boundary of image.

➢ Preset to the PC mode by using the **Source** button.

1 Press the **Menu** button.
Result: The main menu is displayed.

2 Move the joystick up or down to select the `SETUP` menu and press the joystick button.
Result: The `Image Lock` menu is selected.

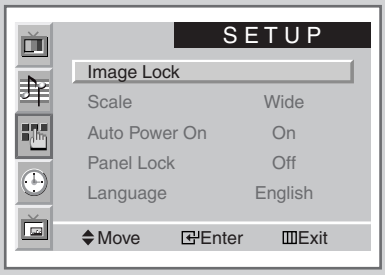
3 Press the joystick button again.
Result: The options available in the `IMAGE LOCK` group are displayed with the `Frequency` option is selected.

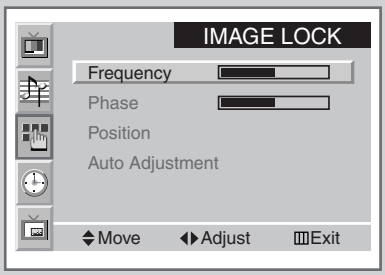
4

To...	Move the joystick...
Move to the `Frequency` or `Phase` option	up or down.
Adjust the each option	left or right.

➢ If these adjustings are not set properly, vertical stripes appears or the picture may be blurry.

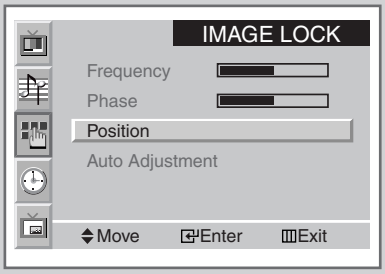
5 When you are satisfied with the settings, press the **Menu** button repeatedly to return to normal viewing.

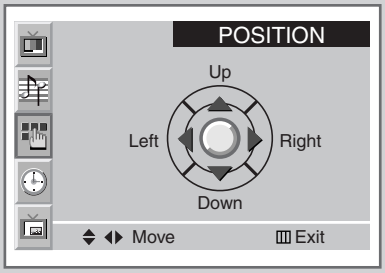




ENG

Changing the Screen Position





➢ Preset to the PC mode by using the **Source** button.

1 Press the **Menu** button.
Result: The main menu is displayed.

2 Move the joystick up or down to select the **SETUP** menu and press the joystick button.
Result: The **Image Lock** menu is selected.

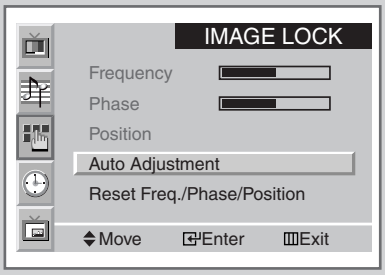
3 Press the joystick button again.
Result: The options available in the **IMAGE LOCK** group are displayed.

4 Move the joystick up or down to select the **Position** menu and press the joystick button.

5 Move the required position by using the joystick.

6 When you are satisfied with the settings, press the **Menu** button repeatedly to return to normal viewing.

Initializing the Frequency, Phase, and Position



➢ Preset to the PC mode by using the **Source** button.

1 Press the **Menu** button.
Result: The main menu is displayed.

2 Move the joystick up or down to select the **SETUP** menu and press the joystick button.
Result: The **Image Lock** menu is selected.

3 Press the joystick button again.
Result: The options available in the **IMAGE LOCK** group are displayed.

4 Move the joystick up or down to select the **Auto Adjustment** menu.
Result: The **Reset Freq./Phase/Position** message is displayed.

5 Press the joystick button again.
Result: The screen becomes black and return to original view about a few seconds later.

6 When you have finished, press the **Menu** button repeatedly to return to normal viewing.

ENG

Changing the Screen Size

➢ Preset to the PC mode by using the **Source** button.

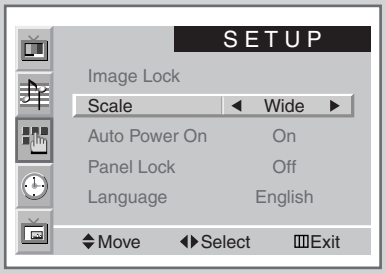
1 Press the **Menu** button.
Result: The main menu is displayed.

2 Move the joystick up or down to select the **SETUP** menu and press the joystick button.

3 Move the joystick up or down to select the **Scale** option.

4 Select the required option (**Wide**, **4:3**) by moving the joystick left or right repeatedly.

5 When you are satisfied with the settings, press the **Menu** button repeatedly to return to normal viewing.



Enjoying the PIP Feature in PC mode

➢ Preset to the PC mode by using the **Source** button.

1 Press the **Menu** button.
Result: The menus available are displayed.

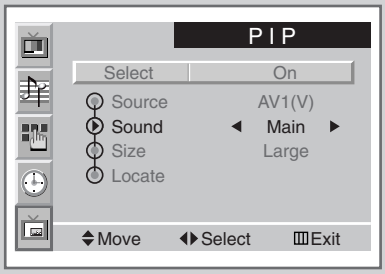
2 Move the joystick up or down to select the **PIP** menu and press the joystick button.
Result: The **Select** option is selected.

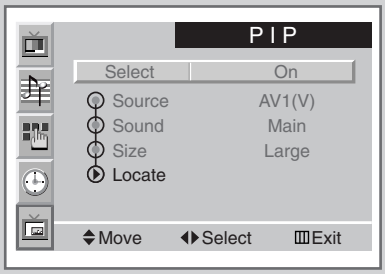
3 Set to **On** by moving the joystick left or right.
Result: The options available in the **PIP** group are displayed.

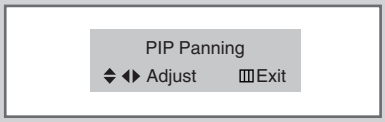
4 Move the joystick up or down to select the **Sound** option and move the joystick left or right repeatedly.
Result: The followings are displayed. You can select your required sound of main or sub picture.
Main ↔ Sub

5 Move the joystick up or down to select the **Locate** option and move the sub picture where you want by using the joystick.

6 When you have selected, press the **Menu** button repeatedly to return to normal viewing.







➢
- The size of sub picture can depend on the resolution of PC.
- For selecting the external source and size of the sub picture, refer to page 24.

ENG

Care and Maintenance

With proper care, your PDP will give you many years of service. Please follow these guidelines to get the maximum performance from your PDP.

- **Identifying Problems**
  - Do not put the PDP near extremely hot, cold, humid or dusty places.
  - Do not put the PDP near appliances that create magnetic fields.
  - Keep the ventilation openings clear.
  - Do not place the PDP on a rough and slanted surface, such as cloth or paper.
- **Liquids**
  - Do not handle liquids near or on the PDP.
- **Cabinet**
  - Never open the cabinet or touch the parts inside.
  - Wipe your PDP with a clean, dry cloth. Never use water, cleaning fluids, wax, or chemicals.
  - Do not put heavy objects on top of the cabinet.
- **Temperature**
  - If your PDP is suddenly moved from a cold to a warm place, unplug the power cord for at least two hours so that moisture that may have formed inside the unit can dry completely.

Troubleshooting

Before contacting Service Personnel, perform the following simple checks.

If you cannot solve the problem using the instructions below, note the model and serial number of the PDP and contact your local dealer.

Problem	Possible Solution
Poor picture.	◆ Check all wire connections.
The power indicator is amber blinking.	◆ The monitor is using its power management system. Check the power management utility on your computer.
Your remote control does not operate the monitor.	◆ Press the **SELECT** button to put your remote control in the **Monitor** mode.
The monitor won't turn on.	◆ Make sure the wall outlet is working.
There is no screen image.	◆ Check to see that both the monitor and the source are plugged in and turned on.
The image is too light or too dark.	◆ Adjust the Picture settings.
The image is too large or too small.	◆ Adjust the Size settings.

Memo

– AFTER SALES SERVICE

– Do not hesitate to contact your retailer or service agent if a change in the performance of your product indicates that a faulty condition may be present.

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